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TITLE: **Pressure sensitive adhesive polystyrene** tape for packaging boxes - mfd. by coating curing silicone release agent on **polystyrene film**, curing and coating with acrylic! adhesive on other side of **film**

PATENT-ASSIGNEE: ASAHI CHEM IND CO LTD[ASAH]

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BASIC-ABSTRACT:

Tape comprises three layers of (A) a curing type silicone release agent layer, (B) a **polystyrene film** substrate and (C) a polyacrylate **pressure sensitive adhesive** layer.

Mfr. comprises: (I) coating a curing silicone release agent suspended in hexane and/or heptane on one surface of the **polystyrene film**; (II) drying and curing it immediately and (III) coating an acrylic **pressure sensitive adhesive** on the other surface of the substrate.

(B) is pref. **stretched** crosswise more than two times and in the machine direction more than crosswise. (A) comprises 100 pts. wt. of an addition reactive silicone, 3-7 pts. wt. of a Pt catalyst, 6-14 pts. wt. of an acetylenic curing retarder and 500-1,500 pts. wt. of solvent. The coating amt. of (A) is 50-2,000 mg/m². (A) is pref. dried within 3 sec.. (C) is pref. an emulsion type and coated by more than 5 g/m².

USE/ADVANTAGE - Used for sealing plastic packaging boxes, esp. foamed **polystyrene** boxes. The tape has improved tearing properties and produces more efficient sealing compared with polypropylene based tapes. Foamed **polystyrene** boxes sealed with the tape may be easily and efficiently recycled without peeling off sealing tapes. **Polystyrene films** have improved printability, transparency and gloss.

CHOSEN-DRAWING: Dwg.0/0